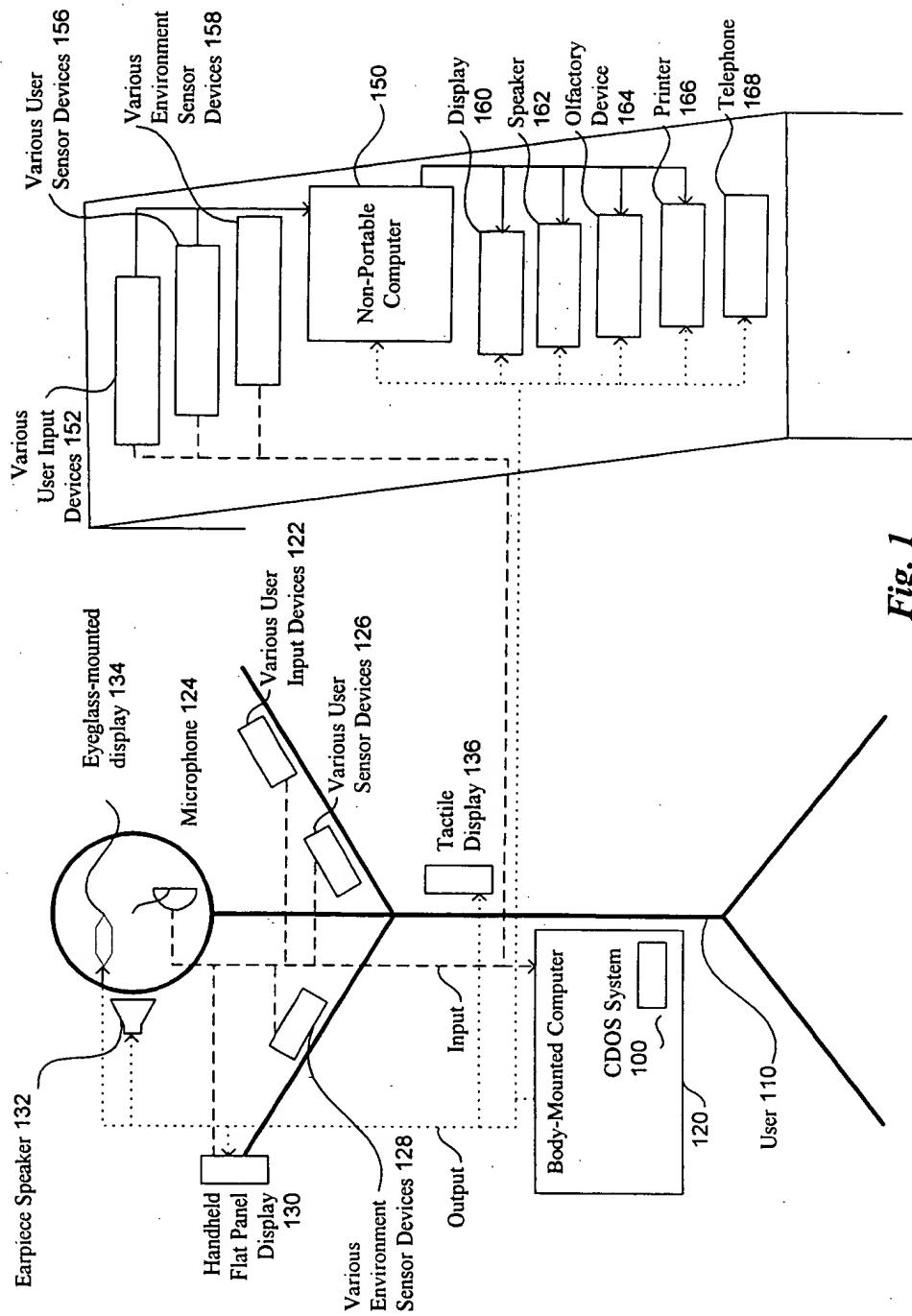
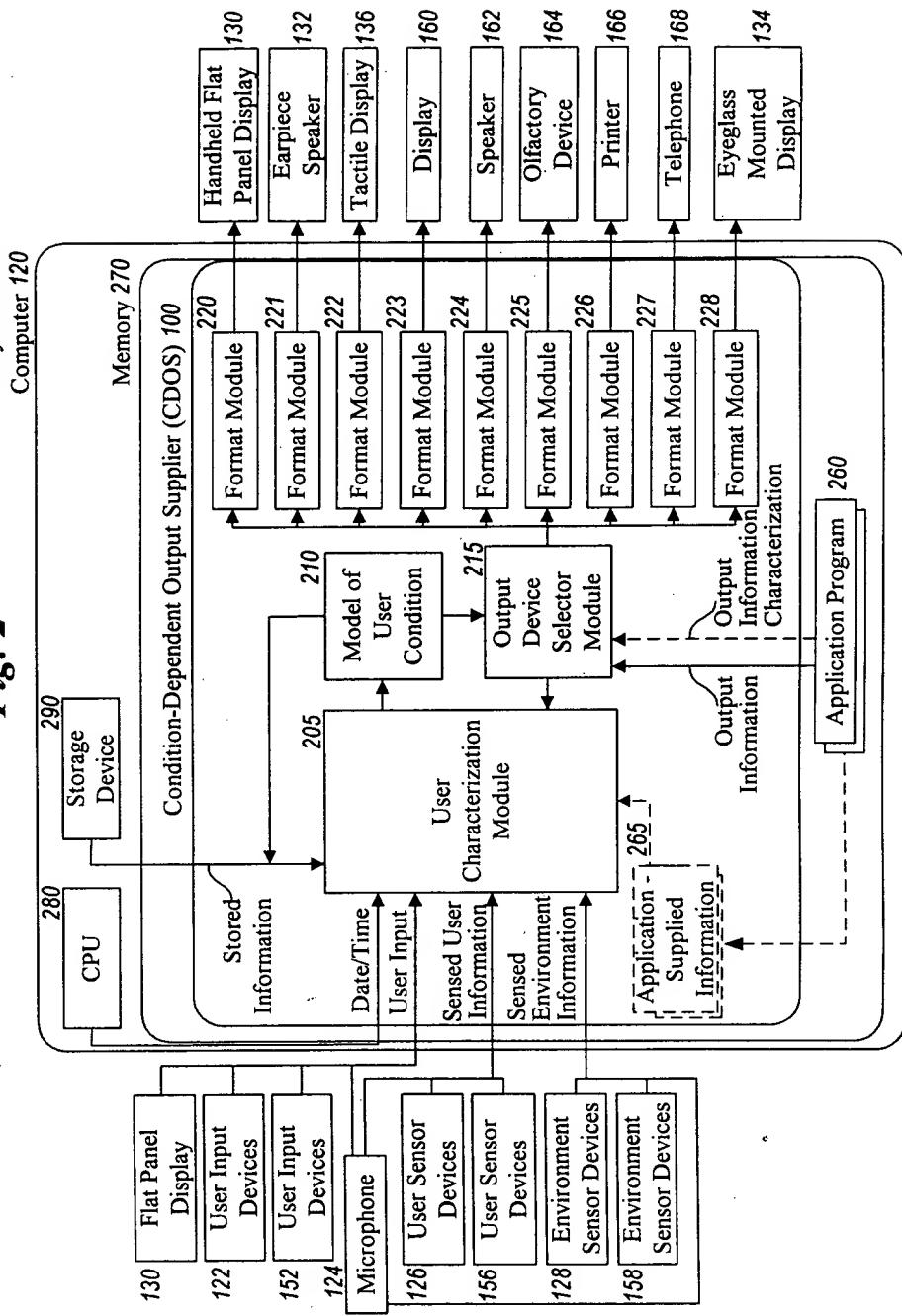


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*Fig. 1*

Fig. 2



*Fig. 3*

Model of User Condition

210

User: X	Time: 14:22	Date 10/15/XX
Latitude	37°55.3' N	
Longitude	95°24.7' W	
Altitude	102'	
Heart Rate	57 beats/minute	
Blood Pressure	125 / 80	
Last User Input	Voice Command "Stop Recording"	
Ambient Temperature	67°F	
Ambient Noise	20 dB	
Location	Office	
Speed	2 MPH	+/- 10%
Nearby Objects	Desk	
Nearby People	Physical: None. Audio: "Doug Smith"	
User Activity	Talking on Cell Phone, Walking	Highly Likely
Cognitive Load	77	
Level of Privacy	Company, Executive	
Scope of Audience	Self	
Application X-Factor 1	Normal: Mean=23, Std Dev 3	
User Format Preference	Visual > Auditory	
User Device Preference	Eyeglass Mounted Display	

**Fig. 4** User Characterization Module 205

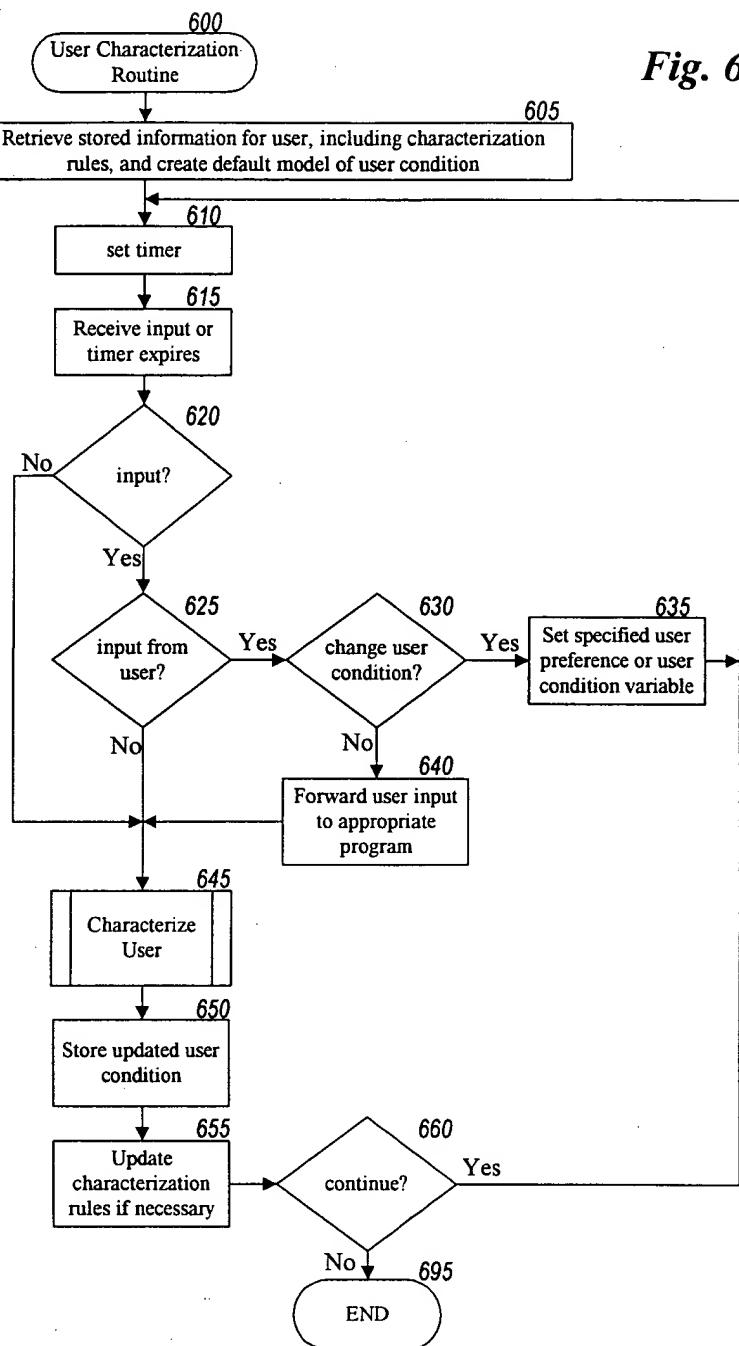
User: X	User Characterization Module 205
IF	<Latitude> ≈ "37°55'2"N" AND <Longitude> ≈ "95°24'7"W THEN <Location> = "Office"
IF	<Infrared Link To Desktop> = True THEN <Nearby Objects> Includes "Desk"
IF	<Voice Recognition.ID> <> "X" AND <Speakerphone.Status> = "Disabled"
IF	THEN <Nearby People> Includes ValueOf <Voice.Recognition.ID>
IF	<Desktop.Motion.Sensor.Human.Movement> = True AND <User Activity>
	Includes "Seated" THEN <Nearby People.Physical> Includes "Unidentified Person"
IF	<User Activity> = "Walking" THEN <Cognitive Load> = 20
IF	<User Activity> = "Talking **" THEN <Cognitive Load> = 20
IF	<User Activity> Includes "Walking" AND <User Activity> Includes
	"Talking On Cell Phone" THEN <Cognitive Load> = 77
WHILE	<Output.To.User> = True THEN <Cognitive Load> = +10
WHILE	<User.Mood> Includes "Angry" THEN <Cognitive Load> = +20%
IF	<Nearby People.*> Includes Only [Company Executives] THEN
	<Level Of Privacy> Includes "Executive"
IF	<Nearby People.*> Includes Only [Company Employees] THEN
	<Level of Privacy> Includes "Company"
IF	<Nearby People.Physical> = "None" THEN <Scope of Audience> = "Self"
IF	<Output.Intrusive.To.Others> = "Likely" THEN <Scope of Audience> = "Self"
AppX:IF	<Application X.Factor 1.Mean> > 25 THEN
	<Application X.Output> = "Undesired" WITH Likelihood "Likely"
IF	<Current.Time> - <Time.Of.Last.User.Input> > 5 minutes THEN <Interacting.With.Computer>
	= False WITH Likelihood "Somewhat Likely"

**Fig. 5**

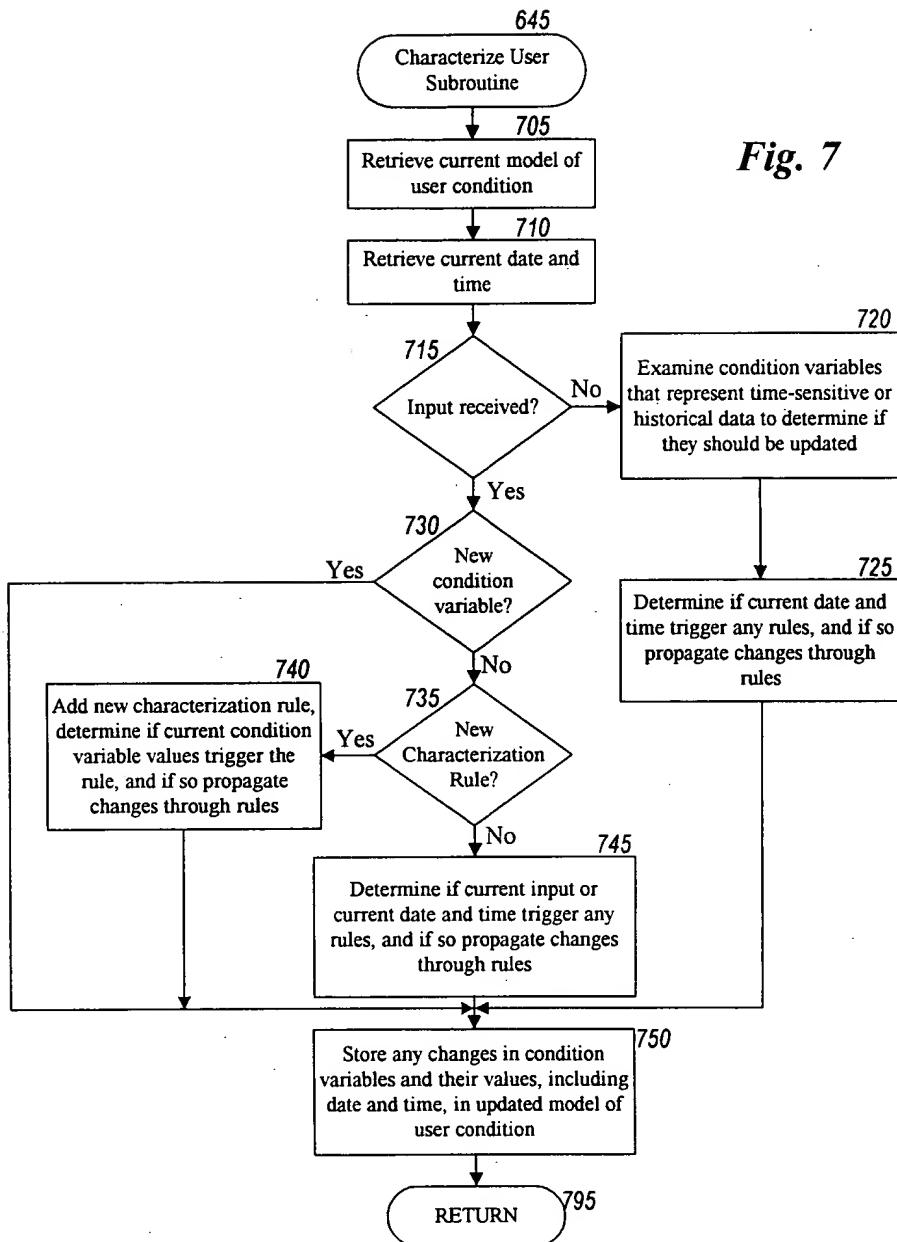
Output Device Selector Module 215

User: X						
Device	Currently Available	In Use	Supported Senses	Cognitive Load	Level of Privacy	Scope of Audience
	X		Visual, Audio	Very Low-Medium	All	Self [+3]
Handheld Flat Panel Display 130	X					Low
Earpiece Speaker 132	X	X	Audio	Very Low-Somewhat High	All	Self
Eye-glass Mounted Display 134	X		Visual	Very Low-Somewhat Low	All	Self
Tactile Display 136	X		Tactile	Very Low-Very High	All	Self
Display 160	X		Visual	Very Low-Somewhat High	Business, Sensitive	Self +6
Speaker 162	X		Audio	Low-Somewhat High	Business	Many
Olfactory Device 164	X		Olfactory	Medium-Somewhat High	Close Friends	Many
Printer 166	X		Visual	Very Low-Very High	Business	Unlimited
Telephone 168	X		Audio	Very Low-Medium	Family	Self
Pager 502			Visual, Audio, Tactile	Very Low-High	All	Self
Cellular Telephone 504			Audio	Very Low-Medium	Highly Sensitive	Self
Car Radio 506			Audio	Low-Sensitive	Sensitive	Self + Few
						Low-High
						High

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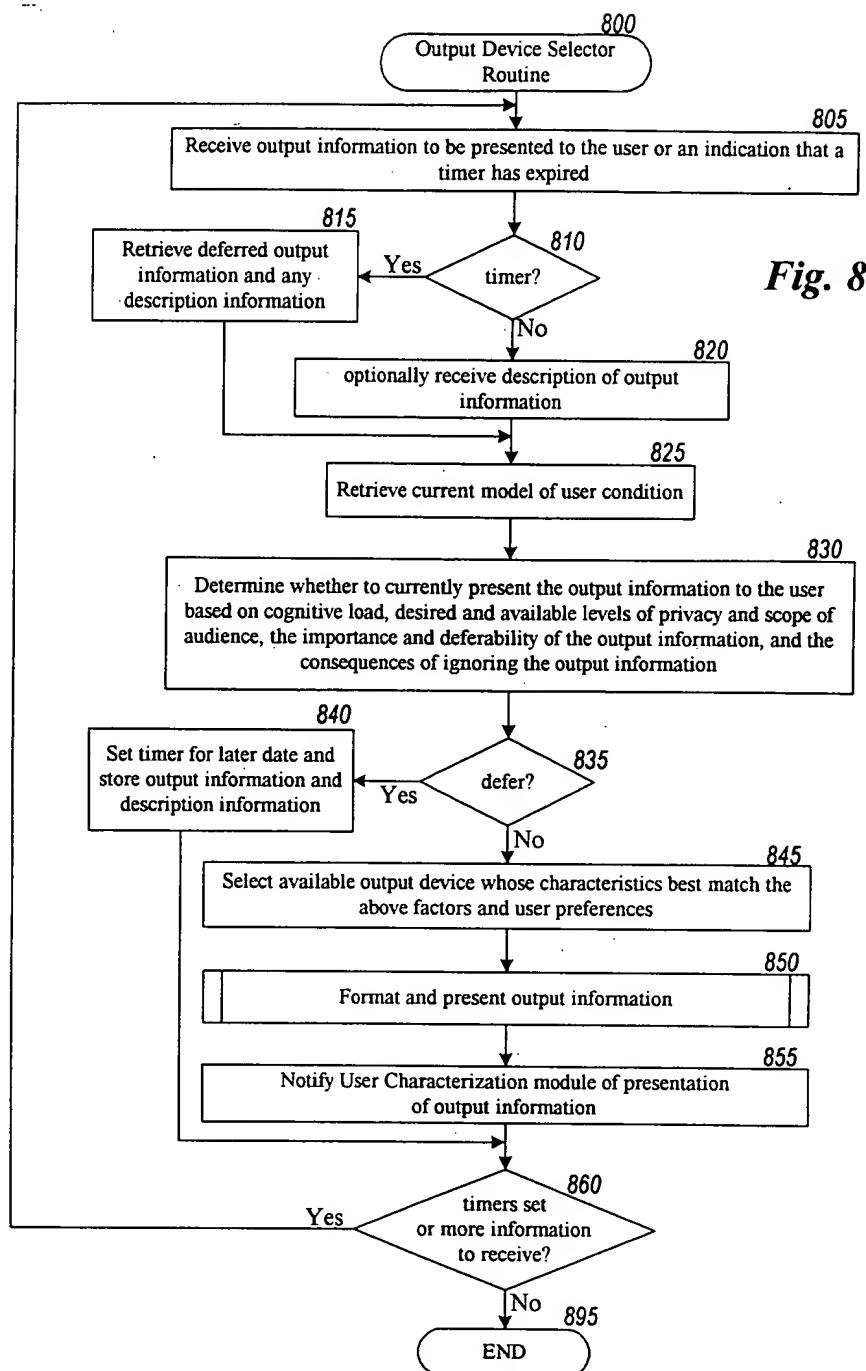


*Fig. 6*



**Fig. 7**

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*Fig. 8*

*Fig. 9*

